

Title (en)  
METHODS AND MATERIALS FOR IMPROVING ARTERIOVENOUS FISTULA MATURATION AND MAINTAINING ARTERIOVENOUS FISTULA FUNCTIONALITY

Title (de)  
VERFAHREN UND MATERIALIEN ZUR VERBESSERUNG DER REIFUNG VON ARTERIOVENÖSEN FISTELN UND ZUR AUFRECHTERHALTUNG DER FUNKTIONALITÄT VON ARTERIOVENÖSEN FISTELN

Title (fr)  
PROCÉDÉS ET MATÉRIAUX POUR AMÉLIORER LA MATURATION DE FISTULE ARTÉRIO-VEINEUSE ET MAINTENIR UNE FONCTIONNALITÉ DE FISTULE ARTÉRIO-VEINEUSE

Publication  
**EP 3809983 A4 20210901 (EN)**

Application  
**EP 19821748 A 20190621**

Priority  
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• US 2019038569 W 20190621

Abstract (en)  
[origin: WO2019246577A1] This document provides methods and materials for improving arteriovenous fistula (AVF) maturation and/or maintaining AVF functionality. For example, methods and materials for using one or more senolytic agents to improve AVF maturation, to maintain AVF functionality, and/or to maintain the patency of an AVF are provided. Methods and materials for using one or more senolytic agents to maintain functionality and/or patency of a venous graft (e.g., a venous graft that bypasses an occluded artery) also are provided.

IPC 8 full level  
**A61B 17/135** (2006.01); **A61P 13/12** (2006.01)

CPC (source: EP US)  
**A61K 31/352** (2013.01 - EP); **A61K 31/355** (2013.01 - EP US); **A61K 31/506** (2013.01 - EP US); **A61P 9/10** (2018.01 - EP US); **A61P 13/12** (2018.01 - EP)

C-Set (source: EP)  
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2. **A61K 31/352 + A61K 2300/00**  
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Citation (search report)  
• [XP] KARL A. NATH ET AL: "The murine dialysis fistula model exhibits a senescence phenotype: pathobiological mechanisms and therapeutic potential", AMERICAN JOURNAL OF PHYSIOLOGY: RENAL PHYSIOLOGY, vol. 315, no. 5, 1 November 2018 (2018-11-01), United States, pages F1493 - F1499, XP055664398, ISSN: 1931-857X, DOI: 10.1152/ajprenal.00308.2018  
• [A] CHANG HAO-HSIANG ET AL: "Statins Improve Long Term Patency of ArteriovenousFistula for Hemodialysis", SCIENTIFIC REPORTS, NATURE PUBLISHING GROUP, US, vol. 6, 23 February 2016 (2016-02-23), pages 22197, XP009528842, ISSN: 2045-2322, DOI: 10.1038/SREP22197  
• See also references of WO 2019246577A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2019246577 A1 20191226**; EP 3809983 A1 20210428; EP 3809983 A4 20210901; US 11925640 B2 20240312; US 2021244734 A1 20210812; US 2024238289 A1 20240718

DOCDB simple family (application)  
**US 2019038569 W 20190621**; EP 19821748 A 20190621; US 201916973723 A 20190621; US 202418432824 A 20240205